James River, Virginia

Federal Navigation Project

Dredged Material Placement Alternatives Study
Middle James River
Virginia

Norfolk District
U.S. Army Corps of Engineers
803 Front Street
Norfolk, VA 23510

Final Report
October 2002

Jordan Pt - Harrison Bar - Windmill Pt
City Pt Channel
Dancing Pt - Swann Pt Channel
Goose Hill Channel
Overboard Placement Area

Figure 1-1 Middle James River

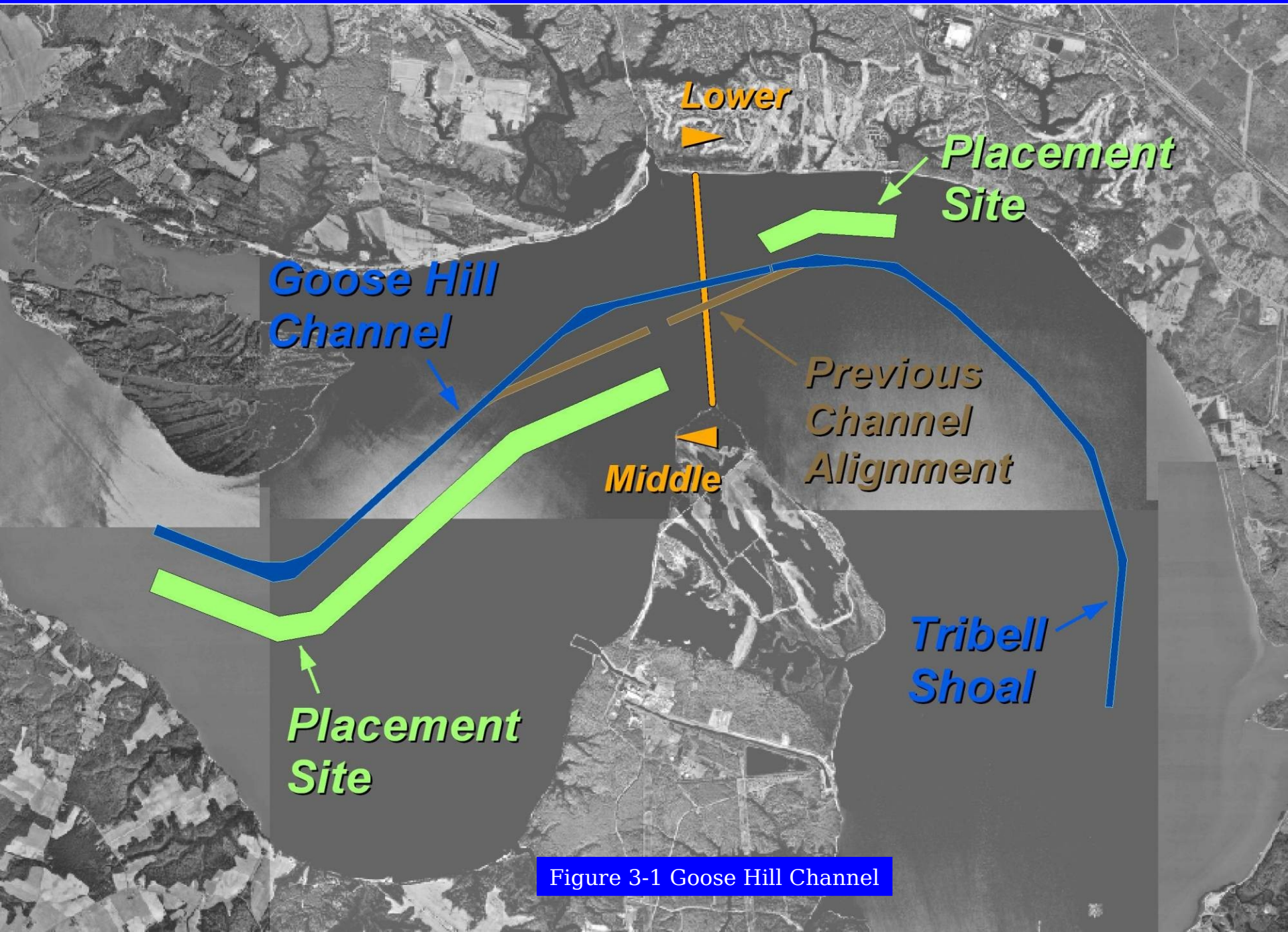

Figure 3-1 Goose Hill Channel

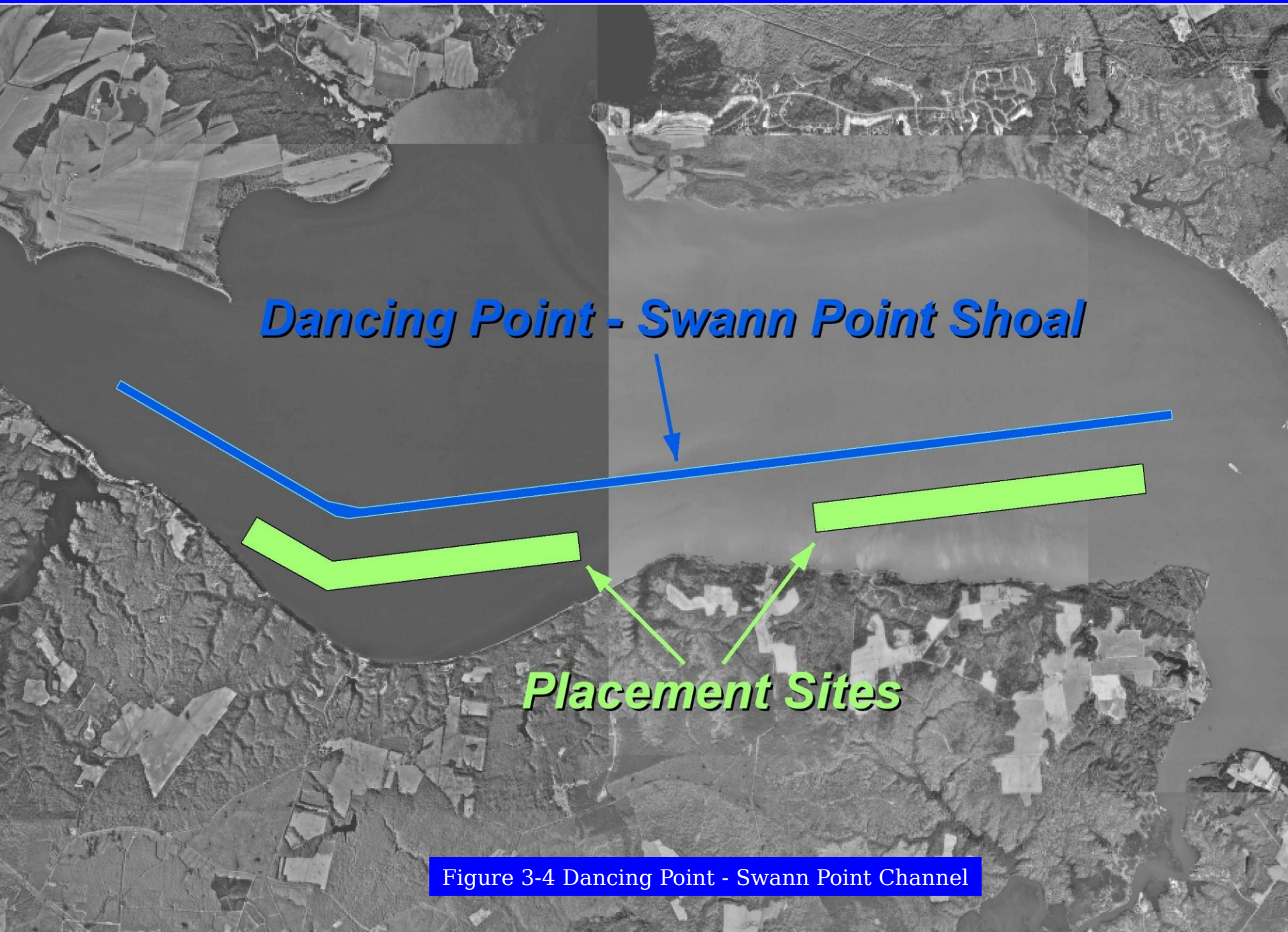

Figure 3-4 Dancing Point - Swann Point Channel

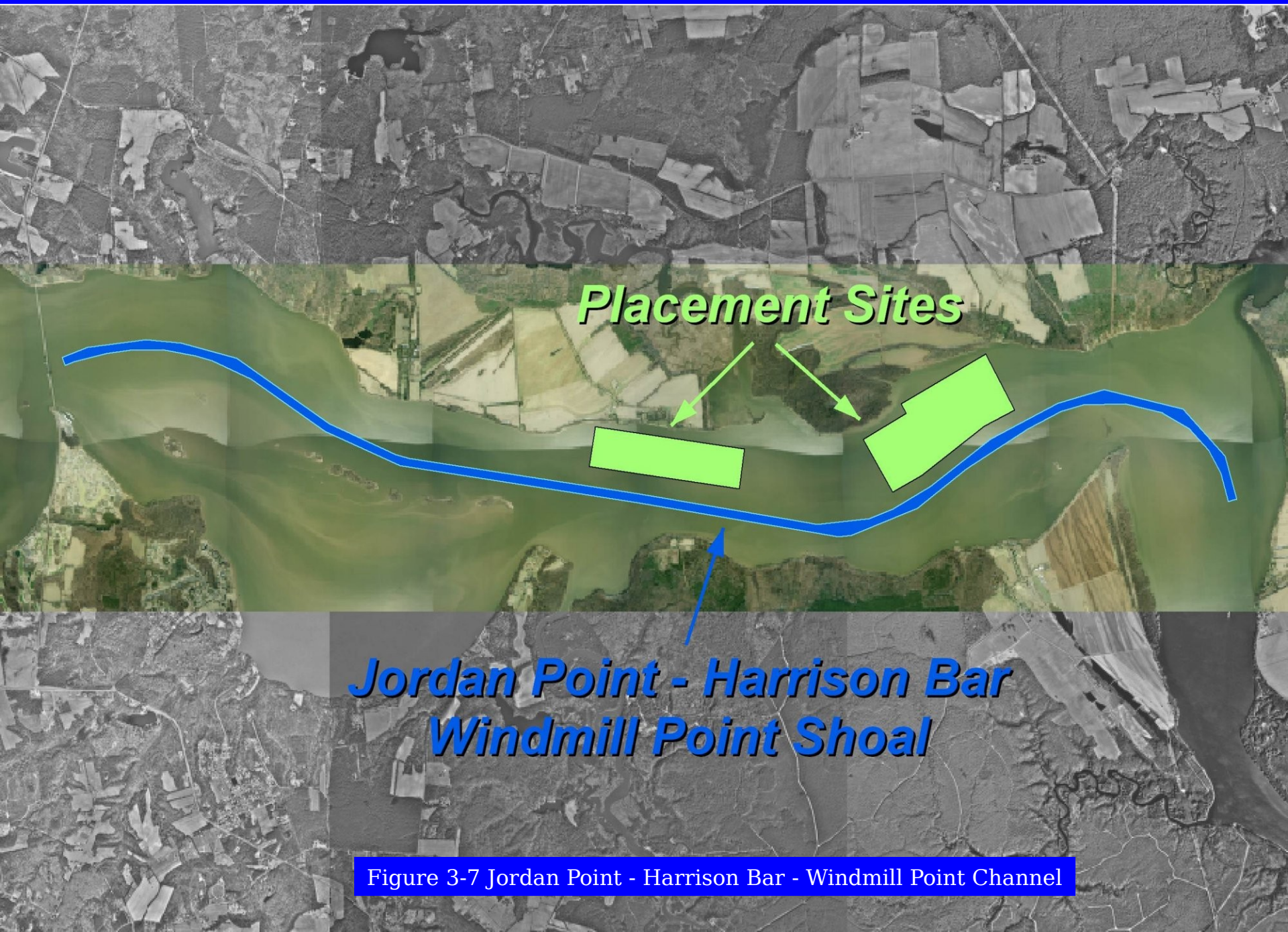

Figure 3-7 Jordan Point - Harrison Bar - Windmill Point Channel

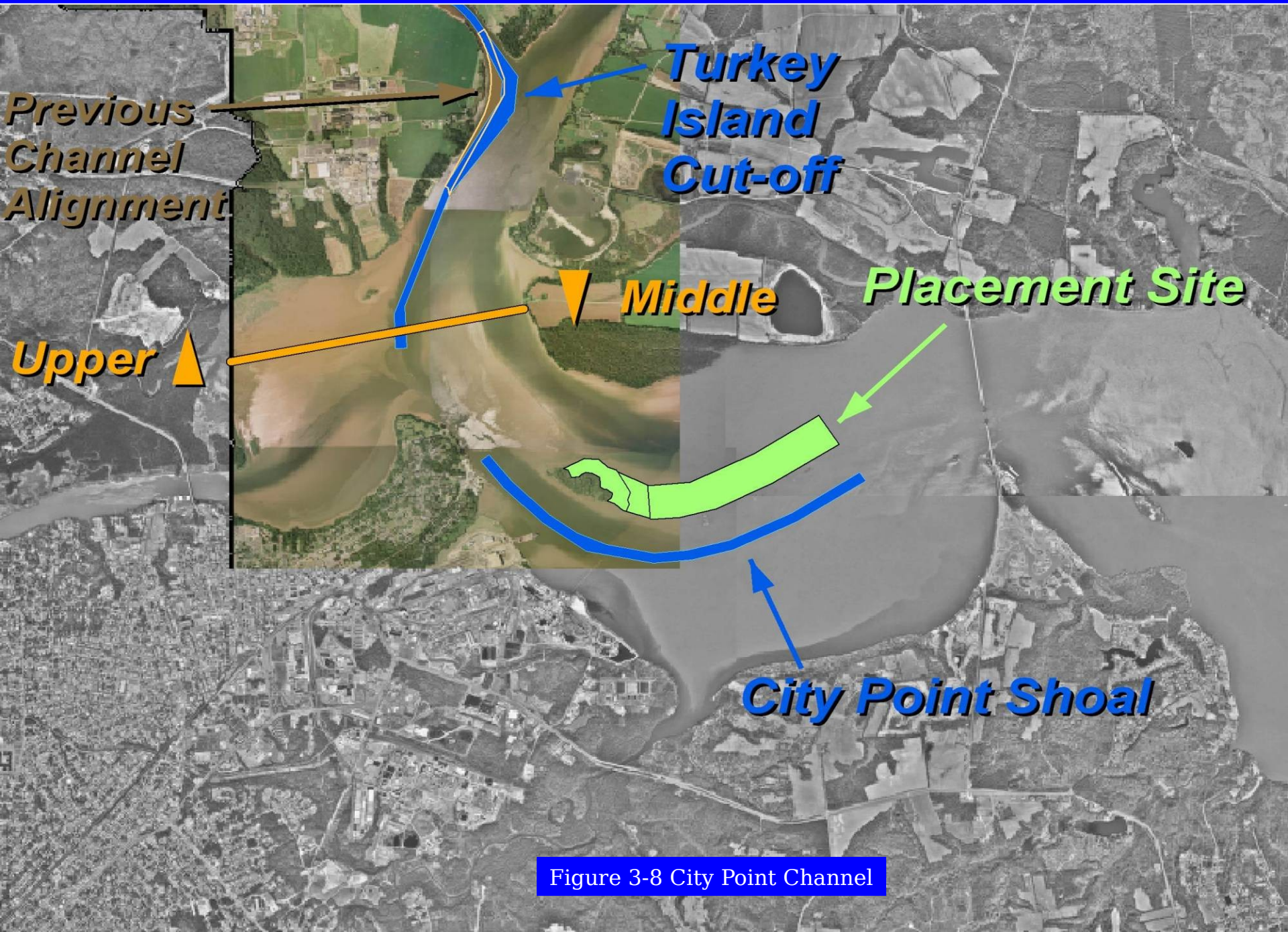

Figure 3-8 City Point Channel

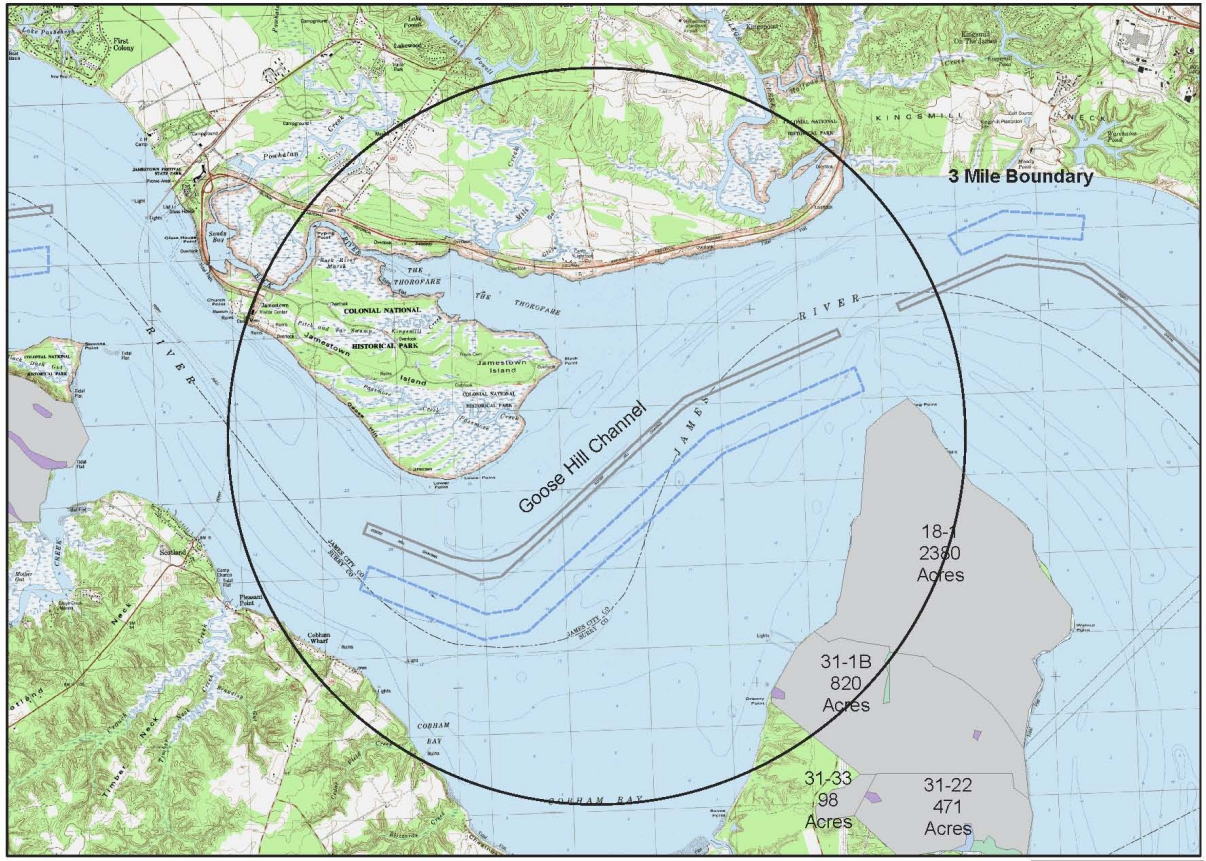

Figure 5-1 Potential Upland Dredge Material Placement Sites

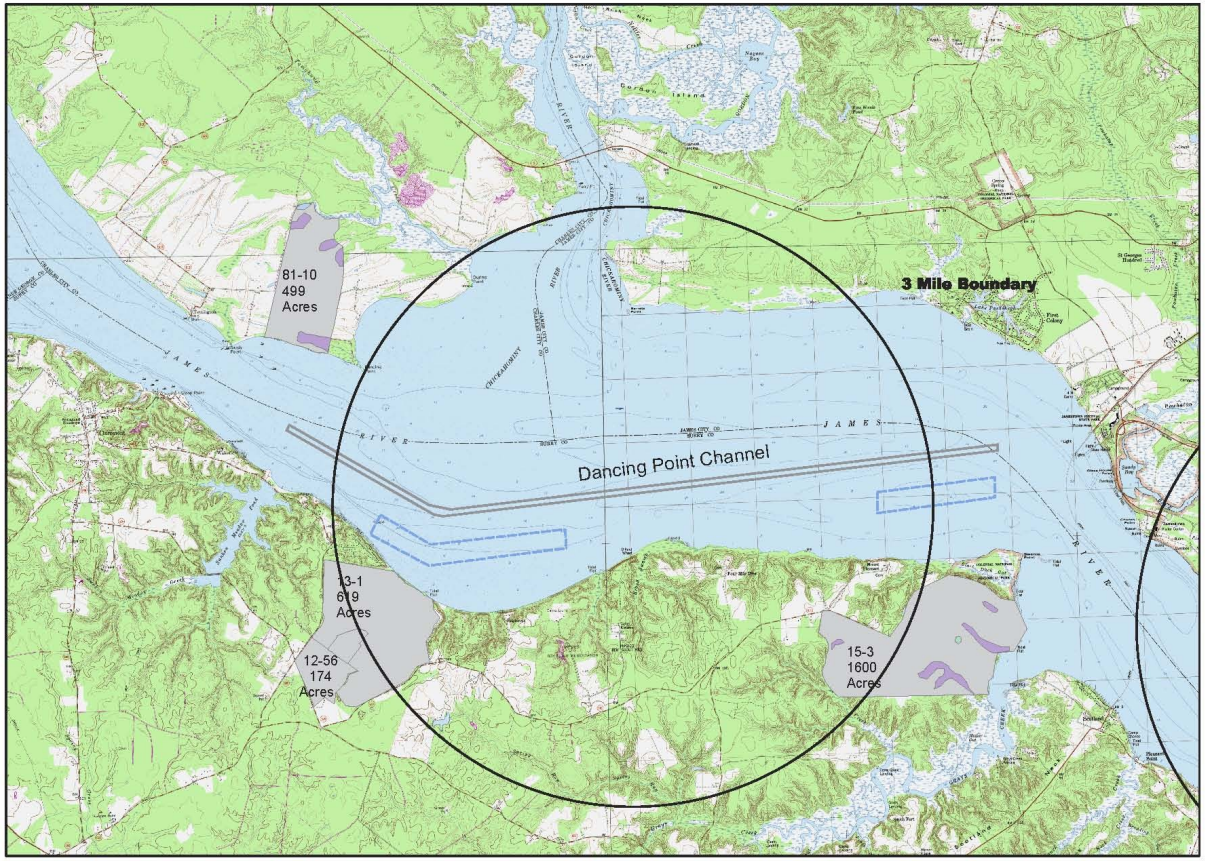

Figure 5-3 Potential Upland Dredge Material Placement Sites

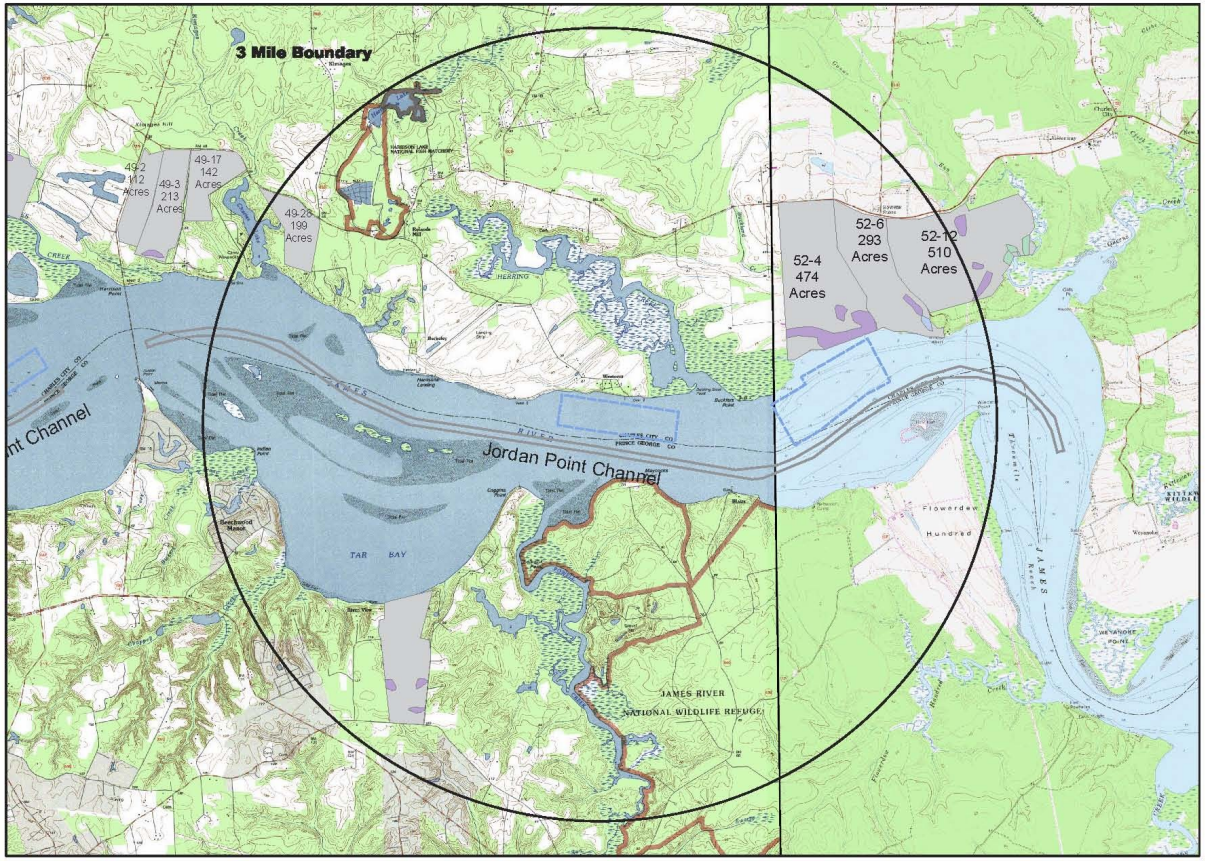

Figure 5-4 Potential Upland Dredge Material Placement Sites

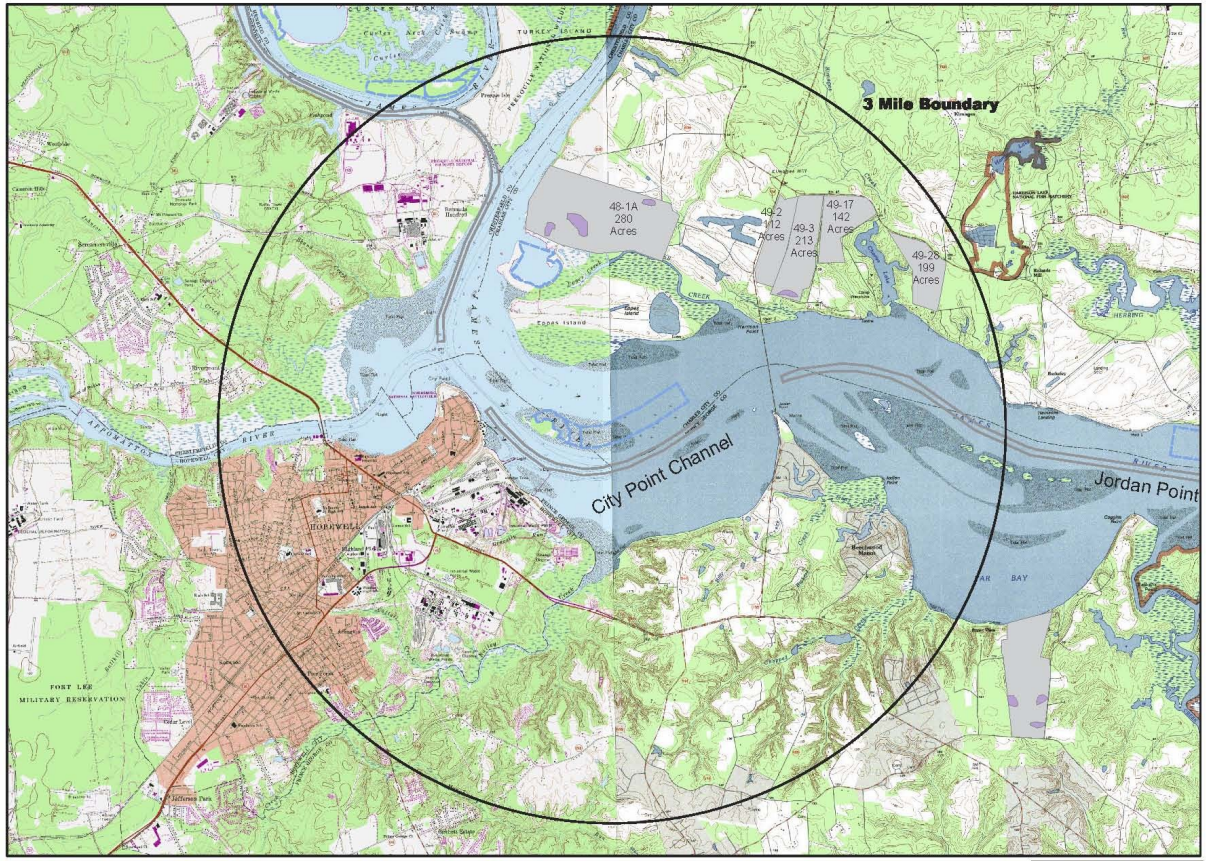

Figure 5-6 Potential Upland Dredge Material Placement Sites

Alternatives for Goose Hill Channel

Goose Hill Channel	Physical Feasibility	Environmental Impacts	Cost Comparison
Present Practice	Highly Feasible	Temporary	$4.0 million
Upland Placement	Potentially Feasible	Minimal to aquatic, significant to uplands	$7.1 million
Alternative Overboard	Highly Feasible	Temporary, but reduced from Present Practice	$3.8 million
Wetland Creation	Potentially Feasible	Questionable	$4.8 million

Alternatives for Dancing Point - Swann Point Channel

Dancing Point – Swann Point	Physical Feasibility	Environmental Impacts	Cost Comparison
Present Practice	Highly Feasible	Temporary	$41.1 million
Upland Placement	Potentially Feasible	Minimal to aquatic, significant to uplands	$69.0 million
Alternative Overboard	Not Feasible	Not Applicable	Not Applicable
Wetland Creation	Not Feasible	Not Applicable	Not Applicable

Alternatives for Jordan Point – Harrison Bar – Windmill Point Channel

Jordan Point	Physical Feasibility	Environmental Impacts	Cost Comparison
Present Practice	Highly Feasible	Temporary	$10.0 million
Upland Placement	Potentially Feasible	Minimal to aquatic, significant to uplands	$19.5 million
Alternative Overboard	Not Applicable	Not Applicable	Not Applicable
Wetland Creation	Potentially Feasible	Questionable	$12.5 million

Alternatives for City Point Channel

City Point	Physical Feasibility	Environmental Impacts	Cost Comparison
Present Practice	Highly Feasible	Temporary	$0.7 million
Upland Placement	Potentially Feasible	Minimal to aquatic, significant to uplands	$2.0 million
Alternative Overboard	Highly Feasible	Temporary, but reduced from Present Practice	$0.6 million
Wetland Creation	Potentially Feasible	Questionable	$2.2 million